



City of San Diego
Development Services
 1222 First Ave., MS-302
 San Diego, CA 92101
 (619) 446-5000

Water Meter Data Card

**FORM
DS-16**
AUGUST 2011

Project No.:	Notification No.:	Sales Order No.:
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Water Meter Address:	Connection Object No.:
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Building or Project Address:

Maximum Length of the Water System:	No. of Building Stories:	Flushometer Valve Fixtures Used <input type="checkbox"/> Yes <input type="checkbox"/> No
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TABLE A-2- 2010 California Plumbing Code

Appliances, Appurtenances or Fixtures	Minimum Fixture Branch Pipe Size	Private	Public	Assembly	X	# Fixtures Added	# Fixtures Removed	# Fixtures Remaining	TOTAL ACROSS ±
Bathtub or Combination Bath/Shr (fill)	1/2"	4.0	4.0	-	X				
3/4" Bathtub Fill Valve	3/4"	10.0	10.0	-	X				
Bidet	1/2"	1.0	-	-	X				
Clothes Washer, domestic	1/2"	4.0	4.0	-	X				
Dental Unit, cuspidor	1/2"	-	1.0	-	X				
Dishwasher, domestic	1/2"	1.5	1.5	-	X				
Drinking Fountain or Water Cooler	1/2"	0.5	0.5	0.75	X				
Hose Bib	1/2"	2.5	2.5	-	X				
Hose Bib, each additional	1/2"	1.0	1.0	-	X				
Lavatory	1/2"	1.0	1.0	1.0	X				
Lawn Sprinkler, each head	-	1.0	1.0	-	X				
Mobile Home, each (Minimum)	-	12.0	-	-	X				
Bar Sink	1/2"	1.0	2.0	-	X				
Clinic Faucet Sink	1/2"	-	3.0	-	X				
Clinic Flushometer Valve with or without faucet	1"	-	8.0	-	X				
Kitchen Sink, domestic	1/2"	1.5	1.5	-	X				
Laundry Sink	1/2"	1.5	1.5	-	X				
Service Sink or Mop Basin	1/2"	1.5	3.0	-	X				
Washup Sink, each set of faucets	1/2"	-	2.0	-	X				
Shower, per head	1/2"	2.0	2.0	-	X				
Urinal, 1.0 GPF Flushometer Valve	3/4"	3.0	4.0	5.0	X				
Urinal, greater than 1.0 GPF Flush V.	3/4"	4.0	5.0	6.0	X				
Urinal, flush tank	1/2"	2.0	2.0	3.0	X				
Washfountain, circular spray	3/4"	-	4.0	-	X				
Wtr Closet, 1.6 GPF Gravity Tank	1/2"	2.5	2.5	3.5	X				
Wtr Closet, 1.6 GPF Flushomtr Tank	1/2"	2.5	2.5	3.5	X				
Wtr Closet, 1.6 GPF Flushomtr Valve	1"	5.0	5.0	8.0	X				
Wtr Closet, >1.6 GPF Gravity Tank	1/2"	3.0	5.5	7.0	X				
Wtr Closet, >1.6 GPF Flushomtr Valve	1"	7.0	8.0	10.0	X				

Other Water Requirements	GPM for
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For Explanations, see 2010 California Plumbing Code, page 318.	Total Fixture Units -> Show NET change in demand (for non-residential use ONLY)
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CAPACITY FEES ARE BASED ON ALL NEW AND / OR ADDITIONAL DEMAND

Note: If any fixtures or water requirements are designated by GPM - City Staff will convert all use to GPM for meter sizing.

I affirm that the information given is correct. The approval given for minimum meter size and maximum water capacity of water pipe are based solely on the information and the building plans. Any deviation under construction will require resubmission of corrected data for determination of adequacy of water pipe and meter sizes.

Signature (Owner/Tenant or Agent) _____ Date Signed _____

The portion below will be completed by the Development Services Department

Total F.U. for Water capacity Fees: _____ Total F.U. for Sewer Capacity Fees: _____ (Total F.U. for Meter Sizing: _____)

Pressure Regulation Required? Yes No Backflow Preventor Required? Yes No

Approved Meter Size: _____ **Water Supply Line Size:** _____

Development Services Department Approved By: _____ Date Approved: _____

Printed on recycled paper. Visit our web site at www.sandiego.gov/development-services.

Upon request, this information is available in alternative formats for persons with disabilities.

Instructions for the completion and filing of Water Meter Data Card

Water Meter Address

Often several buildings share one water meter. In this case, the water meter address may be different than the permitting building address.

Contact the [Public Utilities Department: Water](#) at (619) 515-3500 to determine the address of the existing meters. A new meter will require a new address. All addresses are assigned by the Development Services Department.

Building Address

List the building (project) address, if different from the meter address.

Maximum Length of Water System

Provide the maximum length of the water system, measured from the meter to the plumbing fixture furthest from the meter.

Number of Building Stories

Provide the number of building stories.

Water Closet Gravity Tank vs. Flushometer Valve

Carefully place your fixture count in the correct location for accurate meter sizing.

Matrix to Determine Meter Size and Water/Sewer Demand

Complete the columns of the matrix by supplying the quantity and type of fixtures being “Added” “Re-maining” and/or “Removed.” **Note:** Relocated are considered “Remaining” since there is no change in demand.

Accuracy of the fixture unit count is necessary to determine the appropriate meter size. See Figure 1 below for an example.

Fixture Unit Multiplier

Each plumbing fixture is given a fixture unit value based from the 2010 California Plumbing Code. Fixture units are used for water meter sizing purposes. The unit count for each fixture is determined by multiplying the number of each fixture type by the number in the multiplier column.

Fixtures Added

In the “Fixtures Added” column, list the number of new fixtures or the number of fixtures being added to an existing project under the appropriate fixture type. See Figure 1. Example A.

Fixtures Removed

In the “Fixtures Removed” column, list the number of fixtures that are actually being removed which will create a reduction in the water/sewer demand. **Note:** Replacing a sink with a new sink or a water closet with a new water closet, etc., does not constitute “removed,” they are considered “remaining.” See Figure 1. Example B. Leave this column blank for purely residential uses.

Fixtures Remaining

In the “Fixtures Remaining” column, list the number of fixtures that will remain or that will be relocated during the construction phase of the project.

Other Water Requirements

There are some fixtures not listed or items that cannot be given a fixture unit value. An example is the gallons per minute (GPM) requirements for process water (water that is used in industrial, manufacturing and commercial facilities for processing purposes). Process water includes car wash facilities, cooling towers, boilers, can wash, autoclaves, photo development equipment and any other non-fixture type water usage application. (Do not include the GPM requirements for closed systems.) Fire sprinkler flow for a combined system should be listed here. Make sure this information is provided on your plans.

Sprinkler Heads

Add all 1/4, 1/2, 3/4 and full irrigation sprinkler heads to determine the total number of full sprinkler heads. For example, two 1/4 heads and one 1/2 head will equal one full sprinkler head. Leave blank if separate irrigation meter.

GPM (Gallons per Minute)

When any Water Requirement is listed by GPM demand, **ALL** fixtures will be converted to GPM for the benefit of meter sizing. Capacity fees will be based on a combination of both fixture unit count and GPM demand.

GENERAL USE - applies to business, commercial, industrial, and assembly occupancies other than those defined under “Heavy Use.” Included are the public and common areas in hotels, motels, and multi-dwelling buildings.

HEAVY USE - applies to toilet facilities in occupancies that place a heavy, but intermittent time-based demand on the water supply system, such as schools, auditoriums, stadiums, race courses, transportation terminals, theaters, and similar occupancies where queuing is likely to occur during periods of peak use.

FIGURE 1. Example A of Fixture Matrix Use

1.0 multiplied by 2 bar sinks = +2 additional demand, etc.

Fixtures Remaining does not affect fees but it may affect meter sizing.

Appliances, Appurtenances or Fixtures	Minimum Fixture Branch Pipe Size	Private	Public	Asssembly	X	# Fixtures Added	# Fixtures Removed	# Fixtures Remaining	TOTAL ACROSS ±
Bar Sink	1/2”	1.0	2.0	-	X	2	-	-	+2
Bathtub or Combination Bath/Shr (fill)	1/2”	4.0	-	-	X	2	-	-	+8
Bidet	1/2”	1.0	-	-	X	-	-	-	-
Total Fixtures						Show NET Increase or Decrease in Demand			+10

FIGURE 1. Example B of Fixture Matrix Use

Appliances, Appurtenances or Fixtures	Minimum Fixture Branch Pipe Size	Private	Public	Asssembly	X	# Fixtures Added	# Fixtures Removed	# Fixtures Remaining	TOTAL ACROSS ±
Bar Sink 1/2”	1/2”	1.0	2.0	-	X	-	1	2	-1
Bathtub or Combination Bath/Shr (fill)	1/2”	4.0	-	-	X	1	-	2	+4
Bidet	1/2”	1.0	-	-	X	1	-	-	+1
Total Fixtures						Show NET Increase or Decrease in Demand			+4